None Due Date:

1646 Art Unit:

Ulm, J. Examiner:

1488.0310005 Docket:

> EKS/SGW Atty:

Application No.:

Applicants:

09/333,966

Yu et al.

June 16, 1999 Filed:

Death Domain Containing Receptors For:

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Letter (in duplicate); 1.

Fee Transmittal Form (PTO/SB/17) (in duplicate): 2.

First Supplemental Information Disclosure Statement (in duplicate); 3.

A listing of the cited documents on Form PTO-1449 (1 sheet); 4.

Copies of the following documents: AC1, AD1, AE1, and AL2; 5.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: YU et al.

Application Serial No.: 09/333,966

Art Unit: 1646

Filed: June 16, 1999

Examiner: Ulm, J.

For:

Death Domain Containing Receptors

Attorney Docket No.: PF267D1

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 to inform the Patent and Trademark Office of all references coming to the attention of each individual associated with the filing or prosecution of the subject application, which are or may be material to the patentability of a claim of the subject application, Attorneys for Applicants hereby direct the Examiner's attention to references AA-CE listed on the attached Form PTO/SB/08. No copies of references AA-CE are enclosed.

Copies of references AA-CE were submitted by Applicants or cited by the Examiner in connection with related U. S. Patent Application Serial No. 09/557,908, filed April 21, 2000, which claims priority under 35 U.S.C. § 120 to the instant application. Pursuant to 37 C.F.R. § 1.98(d), the Examiner is directed to the above file for copies of references AA-CE.

The above information is presented so that the Patent and Trademark Office can determine any materiality thereof to the claimed invention. See 37 CFR §§ 1.104(a) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be considered during the prosecution of this application.

Identification of the listed reference(s) is not to be construed as an admission of any individual associated with the filing or prosecution of the subject application that such references are available as "prior art" against the subject application. Furthermore,

Applicants do not waive any rights to appropriate action to establish patentability over any of the listed documents should they be applied as references against the claims of the subject application.

Applicants respectfully request that the Examiner review the listed references and that the references be made of record in the file history of the application.

Pursuant to 37 C.F.R. § 1.97(b), since this information disclosure statement is being filed before the mailing date of a first Office Action on the merits, no fee is due in connection herewith. However, should the Patent Office determine otherwise, please charge the required fee to Human Genome Sciences, Inc., deposit account no. 08-3425.

Respectfully submitted,

Dated: March 7, 2003

Lin J. Hymel (Reg. No. 45,414) Attorney for Applicants

Human Genome Sciences, Inc.

9410 Key West Avenue Rockville, MD 20850 (301) 251-6015 (phone)

Enclosure KKH/LJH/BM/lcc

PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of

	Complete if Known					
Application Number	09/333,966					
Filing Date	June 16, 1999					
First Named Inventor	Guo-Liang Yu					
Art Unit	1646					
Examiner Name	J. Ulm					
Attorney Docket Number	PF267D1					

			U.S. PA	ATENT DOCUMENTS	
Examiner Initials*	Cite No 1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	5,349,052	09/20/1994	Delgado et al.	
1	AB	5,478,925	12/26/1995	Wallach et al.	
	AC	5,643,575	07/01/1997	Martinez et al.	

4

			FOREIGN P	ATENT DOCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵
7	AD	WO 95/06058	03/02/1995	Royal Free Hospital School of Medicine		
1	AE	WO 95/10540	04/20/1995	Immunex Corporation		
	AF	EP 0 401 384 B1	12/12/1990	Kirin-Amgen, Inc.		
V	AG	WO 96/14328	05/17/1996	Human Genome Sciences, Inc.		
~	АН	WO 96/26736	09/06/1996	Ludwig Institute for Cancer Research and Helsinki Univ. Licensing Ltd., Oy		
	Al	WO 96/34095	10/31/1996	Human Genome Sciences, Inc.	TT .	-
-	AJ	WO 96/39515	12/12/1996	Human Genome Sciences, Inc.	E N	27
ι	AK	WO 97/33899	09/18/1997	Human Genome Sciences, Inc.	9 3	口
~	AL	WO 97/34911	09/25/1997	Human Genome Sciences, Inc.	四。	
-	АМ	WO 98/02543	01/22/1998	Chugai Research Institute for Molecular Medicine, Inc.	AR 1 2 2	甲
l	AN	WO 98/06842	02/19/1988	Schering Corporation	70	1
_	AO	WO 98/07832	02/26/1998	Ludwig Institute for Cancer Research and Helsinki Univ. Liccensing Ltd., Oy	2003 A 1600/2900	T.
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Ū	AU	WO 98/32466	07/30/1998	Polymasc Pharmaceuticals PLC		
1/	AV	WO 98/41629	09/24/1998	Human Genome Sciences, Inc.		
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	AZ	WO 00/08139	02/17/2000	Human Genome Sciences, Inc.		
N.	ВА	CA 2,260,754	01/22/1998	Chugai Research Institute for Molecular Medicine, Inc.		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

Examiner	Date	
Signature	Considered	
		<u> </u>

Applicant's unique citation designation number (optional). See attached Kinds Codes of USPTO Patent Documents at Awa usptings, or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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Substitu	ute for form 1449A/PTO		· -		Complete if Known	\mathfrak{S}_{\bullet}
				Application Number	09/333,966	$\sqrt{\lambda}$
INF	ORMATION	1 DI	SCLOSURE	Filing Date	June 16, 1999	{{}^{1}}
l st	ATEMENT	3Y <i>A</i>	APPLICANT	First Named Inventor	Guo-Liang Yu	1
				Art Unit	1646	2
	(use as many she	eets as	necessary)	Examiner Name	J. Ulm	6
Sheet	2	of	4	Attorney Docket Number	PF267D1 %	

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BB V	Arend et al. "Binding of II-1α, IL-1β, and IL-1 Receptor Antagonist by Soluble IL-1 Receptors and Lveles of Soluble IL-1 Receptors in Synovial Fluids," J. Immunol. 153:4766-4774 (1994)	
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	BD	Beutler, B., and Cerami, A., "Tumor Necrosis, Cachexia, Shock, and Inflammation: A Common Mediator," <i>Ann. Rev. Biochem.</i> 57:505-518 (1988)	
	BE し	Boldin, M.P. et al., "A Novel Protein That Interacts with the Death Domain of Fas/APO1 Contains a Sequence Motif Related to the Death Domain," <i>J. Biol. Chem.</i> 270:7795-7798 (April 1995)	
	BF ~	Boldin, M.P. et al., "Involvement of MACH, a Novel MORT1/FADD-Interacting Protease, in Fas/APO-1- and TNF Receptor-Induced Cell Death," <i>Cell</i> 85:803-815 (June 1996)	
	BG	Caliceti, P., et al., "Biopharmaceutical Properties of Uricase Conjugated to Neutral and Amphiphilic Polymers," <i>Bioconjugate Chem. 10</i> :638-646 (August 1999)	
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	BI	Chinnaiyan, A.M. <i>et al.</i> , "FADD/MORT1 Is a Common Mediator of CD95 (Fas/APO-1) and Tumor Necrosis Factor Receptor-induced Apoptosis," <i>J. Biol. Chem. 271</i> :4961-4965 (March 1996)	
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	BK ,	Delgado, C., et al., "The Uses and Properties of PEG-Linked Proteins," Clin. Rev. Ther. Drug Carrier Systems 9:249-304 (1992)	
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	BN -	Francis, G.E. et al., "PEGylation of cytokines and other therapeutic proteins and peptides: the importance of biological optimisation of coupling techniques," . <i>Intl. J. Hematol.</i> 68:1-18 (July 1998)	

^{*}EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner	·	Date	
Signature		Considered	

^{&#}x27;Applicant's unique citation designation number (optional) ²Applicant is to place a check mark here if English language Translation is attached

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Sub	stitute for form 1449A/PTO				Complete if Known
				Application Number	09/333,966
l In	VEORMATION	اD ا	SCLOSURE	Filing Date	June 16, 1999
l s	STATEMENT !	BY A	APPLICANT	First Named Inventor	Guo-Liang Yu
				Art Unit	1646
	(use as many sh	eets as	necessary)	Examiner Name	J. Ulm
Sheet	3	of	4	Attorney Docket Number	PF267D1

		9	5
		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	90
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	ВО	Fu, M.L.X. <i>et al.</i> , "Characterization of anti-peptide antibodies directed against an extracellular immunogenic epitope on the human α ₁ -adrenergic receptor," <i>Clin. Exp. Immunol.</i> 97:146-151 (July 1994)	
	BP _	Goeddel, D.V. et al., "Tumor Necrosis Factors: Gene Structure and Biological Activities," Cold Spring Harbor Symp. Quant. Biol. LI:597-609 (1986)	
	BQ 	Hahne, M., et al., "APRIL, a New Ligand of the Tumor Necrosis Factor Family, Stimulates Tumor Cell Growth," J. Exp. Med. 188:1185-1190 (September 1998)	
	BR	Hsu, H. et al., "The TNF Receptor 1-Associated Protein TRADD Signals Cell Death and NF-κB Activation," Cell 81:495-504 (May 1995)	
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	BT	Hsu, H. et al., "TNF-Dependent Recruitment of the Protein Kinase RIP to the TNF Receptor-1 Signaling Complex," <i>Immunity 4</i> :387-396 (April 1996)	
	BU	Hughes, D.P.M. and Crispe, I.N., "A Naturally Occurring Soluble Isoform of Murine Fas Generated by Alternative Splicing," <i>J. Exp. Med.</i> 182:1395-1401 (November 1995)	
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	BZ	Rothe, M. et al., "TRAF2-Mediated Activation of NF-kB by TNF Receptor 2 and CD40," Science 269:1424-1427 (September 1995)	
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Examiner	Date	***
Signature	Considered	

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Substitut	Substitute for form 1449A/PTO			Complete if Known			
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•				Art Unit	1646	2 3	
	(use as man	ny sheets as ne	ecessary)	Examiner Name	J. Ulm	The contract of	
Sheet	4	of	4	Attorney Docket Number	PF267D1	8	

	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CB	Tartaglia, L. A., et al., "Tumor Necrosis Factor's Cytotoxic Activity is Signaled by the p55 TNF Receptor," Cell 73:213-216 (1993)	
СС	Tewari, M. and Dixit, V.M., "Fas- and Tumor Necrosis Factor-induced Apoptosis Is Inhibited by the Poxvirus <i>crmA</i> Gene Product," <i>J. Biol. Chem.</i> 270:3255-3260 (February 1995)	
CD	Vorobjev, P. E., et al., "Oligonucleotide Conjugated to Linear and Branched High Molecular Weight Polyethylene Glycol as Substrates for RNase H.," <i>Nucleosides & Nucleotides 18</i> :2745-2750 (November-December 1999)	
CE ·	Yoon, S.T. et al., "Both High and Low Avidity Antibodies to the T Cell Receptor Can Have Agonist or Antagonist Activity," <i>Immunity</i> 1:563-569 (October 1994)	
	CB CC	Cite No Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. CB Tartaglia, L. A., et al., "Tumor Necrosis Factor's Cytotoxic Activity is Signaled by the p55 TNF Receptor," Cell 73:213-216 (1993) CC Tewari, M. and Dixit, V.M., "Fas- and Tumor Necrosis Factor-induced Apoptosis Is Inhibited by the Poxvirus crmA Gene Product," J. Biol. Chem. 270:3255-3260 (February 1995) CD Vorobjev, P. E., et al., "Oligonucleotide Conjugated to Linear and Branched High Molecular Weight Polyethylene Glycol as Substrates for RNase H.," Nucleosides & Nucleotides 18:2745-2750 (November-December 1999) CE Yoon, S.T. et al., "Both High and Low Avidity Antibodies to the T Cell Receptor Can

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